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L6: Entry 1 of 1

File: DWPI

Mar 28, 2003

DERWENT-ACC-NO: 1999-419377

DERWENT-WEEK: 200325

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TITLE: Drilling and completing a hydrocarbon production well

INVENTOR: LOHBECK, W C M; MARKETZ, F ; STEWART, R B

## PATENT-ASSIGNEE:

ASSIGNEE	CODE
SHELL INT RES MIJ BV	SHEL
SHELL CANADA LTD	SHEL

PRIORITY-DATA: 1997EP-0204157 (December 31, 1997)

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## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
<input type="checkbox"/> NZ 505059 A	March 28, 2003	-	000	E21B043/10
<input type="checkbox"/> WO 9935368 A1	July 15, 1999	E	025	E21B043/10
<input type="checkbox"/> AU 9924186 A	July 26, 1999		000	E21B043/10
<input type="checkbox"/> EP 1044316 A1	October 18, 2000	E	000	E21B043/10
<input type="checkbox"/> NO 200003402 A	August 25, 2000		000	E21B043/10
<input type="checkbox"/> BR 9814563 A	October 17, 2000		000	E21B043/10
<input type="checkbox"/> AU 740213 B	November 1, 2001		000	E21B043/10
<input type="checkbox"/> JP 2002500306 W	January 8, 2002		027	E21B043/10
<input type="checkbox"/> EP 1044316 B1	September 18, 2002	E	000	E21B043/10
<input type="checkbox"/> DE 69808139 E	October 24, 2002		000	E21B043/10

DESIGNATED-STATES: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW DE DK FR GB IT NL DE DK FR GB IT NL

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
NZ 505059A	December 28, 1998	1998NZ-0505059	

NZ 505059A	December 28, 1998	<u>1998WO-EP08549</u>	
NZ 505059A		WO 9935368	Based on
WO 9935368A1	December 28, 1998	<u>1998WO-EP08549</u>	
AU 9924186A	December 28, 1998	1999AU-0024186	
AU 9924186A		WO 9935368	Based on
EP 1044316A1	December 28, 1998	1998EP-0966700	
EP 1044316A1	December 28, 1998	<u>1998WO-EP08549</u>	
EP 1044316A1		WO 9935368	Based on
NO 200003402A	December 28, 1998	<u>1998WO-EP08549</u>	
NO 200003402A	June 29, 2000	2000NO-0003402	
BR 9814563A	December 28, 1998	1998BR-0014563	
BR 9814563A	December 28, 1998	<u>1998WO-EP08549</u>	
BR 9814563A		WO 9935368	Based on
AU 740213B	December 28, 1998	1999AU-0024186	
AU 740213B		AU 9924186	Previous Publ.
AU 740213B		WO 9935368	Based on
JP2002500306W	December 28, 1998	<u>1998WO-EP08549</u>	
JP2002500306W	December 28, 1998	2000JP-0527736	
JP2002500306W		WO 9935368	Based on
EP 1044316B1	December 28, 1998	1998EP-0966700	
EP 1044316B1	December 28, 1998	<u>1998WO-EP08549</u>	
EP 1044316B1		WO 9935368	Based on
DE 69808139E	December 28, 1998	1998DE-0608139	
DE 69808139E	December 28, 1998	1998EP-0966700	
DE 69808139E	December 28, 1998	<u>1998WO-EP08549</u>	
DE 69808139E		EP 1044316	Based on
DE 69808139E		WO 9935368	Based on

INT-CL (IPC): E21 B 29/00; E21 B 43/10

ABSTRACTED-PUB-NO: EP 1044316B

BASIC-ABSTRACT:

NOVELTY - A section of borehole (1) is drilled into underground formations (3, 4, 5, 6) and casing (8, 9, 10, 11) is inserted and radially expanded and secured. A drill bit is lowered through expanded casing (8) and subsequent section of borehole is drilled. Another casing is inserted into subsequent section and expanded and secured radially next to casing within subsequent borehole section. The above steps can be repeated if required until the borehole has reached the vicinity of a hydrocarbon bearing formation.

USE - Drilling and completing a hydrocarbon production well such as a well for production of oil and/or gas.

ADVANTAGE - In the invention, the amount of steelwork required for casing and completing the well is kept to a minimum.

DESCRIPTION OF DRAWING(S) - The drawing shows the well comprising a series of radially expanded casings of substantially uniform diameter that have been installed.

Borehole 1

First/upper section of borehole 1a

Further borehole sections 1b, 1c, 1d

Earth surface 2

Formation layers 3, 4, 5, 6

Oil/gas formation layer 7

Casings 8, 9, 10, 11

Borehole 10

Interfaces 12, 13, 14, 15,

Mandrel 16

ABSTRACTED-PUB-NO:

WO 9935368A

EQUIVALENT-ABSTRACTS:

NOVELTY - A section of borehole (1) is drilled into underground formations (3, 4, 5, 6) and casing (8, 9, 10, 11) is inserted and radially expanded and secured. A drill bit is lowered through expanded casing (8) and subsequent section of borehole is drilled. Another casing is inserted into subsequent section and expanded and secured radially next to casing within subsequent borehole section. The above steps can be repeated if required until the borehole has reached the vicinity of a hydrocarbon bearing formation.

USE - Drilling and completing a hydrocarbon production well such as a well for production of oil and/or gas.

ADVANTAGE - In the invention, the amount of steelwork required for casing and completing the well is kept to a minimum.

DESCRIPTION OF DRAWING(S) - The drawing shows the well comprising a series of radially expanded casings of substantially uniform diameter that have been installed.

Borehole 1

First/upper section of borehole 1a

Further borehole sections 1b, 1c, 1d

Earth surface 2

Formation layers 3, 4, 5, 6

Oil/gas formation layer 7

Casings 8, 9, 10, 11

Borehole 10

Interfaces 12, 13, 14, 15,

Mandrel 16

CHOSEN-DRAWING: Dwg.1/4

TITLE-TERMS: DRILL COMPLETE HYDROCARBON PRODUCE WELL

DERWENT-CLASS: H01 Q49

CPI-CODES: H01-B;

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1999-123410

Non-CPI Secondary Accession Numbers: N1999-312992

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L7	156	"28234"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/25 09:22
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S5	117	(thin near2 wall\$2) with (thick near2 wall\$2) with (seal (compress\$4 near2 annular))	US-PGPUB; USPAT; USOCR	OR	ON	2004/10/21 09:04

S6	356	(166/207).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/21 09:37
S7	50	("1880218"):URPN.	USPAT	OR	ON	2004/10/21 09:42
S8	80	("1301285"   "1641035"   "1880218"   "1981525"   "2214226"   "2424878"   "2519116"   "2583316"   "2721823"   "2743743"   "2762436"   "2884066"   "2901044"   "2924546"   "2937665"   "2966173"   "3028915"   "3039530"   "3162245"   "3167122"   "3179168"   "3191680"   "3203451"   "3203483"   "3297092"   "3354955"   "3358760"   "3489220"   "3627068"   "3669190"   "3691624"   "3712376"   "3780562"   "3785193"   "4270761"   "4501327"   "4662450"   "4809793"   "4866966"   "4971152"   "4979570"   "5083608"   "5101908"   "5113703"   "5143154"   "5154230"   "5337823"   "5494106"   "5507343"   "5513703"   "5813484"   "5829524").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2004/10/21 09:54
S9	2	("6098717").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/21 10:04
S10	756	(285/382).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/21 12:36
S11	33	S10 and casing	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/21 10:53
S12	723	(285/256).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/21 12:36
S13	756	(285/382).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2004/10/21 12:37

S14	42	S12 and S13	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/21 12:37
S15	0	"97204157"	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/21 12:48
S16	39	PCT and shell and lohbeck	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2004/10/21 12:48